

Clean Version of the New Claims

A | 38. A communication method for use in a communication system including a first communication device, a second communication device, a third communication device and a fourth communication device, said second communication device being in communication with said third communication device over a packet network, said first communication device being in communication with said second communication device over a first communication line and said third communication device being in communication with said fourth communication device over a second communication line, said method comprising the steps of:

receiving a first compressed data from said third communication device by said second communication device over said packet network, wherein said first compressed data is compressed according to a first protocol by said fourth communication device;

decompressing said first compressed data, by said second communication device, according to said first protocol to generate a first decompressed data;

compressing said first decompressed data to generate a second compressed data, wherein said second compressed data is compressed by said second communication device according to a second protocol; and

transmitting said second compressed data to said first communication device.

39. The method of claim 38, wherein said first protocol is based on MNP5 compression protocol and said second protocol is based on V.42bis compression protocol.

40. The method of claim 38, wherein said first protocol is based on V.42bis compression protocol and has a plurality of first parameters and said second protocol is based on V.42bis compression protocol and has a plurality of second parameters, and wherein at least one

parameter of said plurality of first parameters is different than a corresponding parameter of said plurality of second parameters.

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41. The method of claim 40, wherein said at least one parameter is a dictionary size.  
42. The method of claim 38, wherein said first protocol is based on V.44 compression protocol and said second protocol is based on V.42bis compression protocol.

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43. The method of claim 38 further comprising the steps of:  
receiving a third compressed data from said first communication device by said second communication device over said first communication line; and  
transmitting said third compressed data by said second communication device to said third communication device over said packet network.

44. A communication device for use in a communication system including a first device, a second device and a third device, said communication device being in communication with said second device over a packet network, said first device being in communication with said communication device over a first communication line and said third device being in communication with said second device over a second communication line, said communication device comprising:

a first receiver capable of receiving a first compressed data from said second device over said packet network, wherein said first compressed data is compressed according to a first protocol by said third device;

a data decompressor capable of decompressing said first compressed data, according to said first protocol to generate a first decompressed data;

a data compressor capable of compressing said first decompressed data to generate a second compressed data, wherein said second compressed data is compressed according to a second protocol; and

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a first transmitter capable of transmitting said second compressed data to said first device.

45. The communication device of claim 44, wherein said first protocol is based on MNP5 compression protocol and said second protocol is based on V.42bis compression protocol.

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46. The communication device of claim 44, wherein said first protocol is based on V.42bis compression protocol and has a plurality of first parameters and said second protocol is based on V.42bis compression protocol and has a plurality of second parameters, and wherein at least one parameter of said plurality of first parameters is different than a corresponding parameter of said plurality of second parameters.

47. The communication device of claim 46, wherein said at least one parameter is a dictionary size.

48. The communication device of claim 44, wherein said first protocol is based on V.44 compression protocol and said second protocol is based on V.42bis compression protocol.

49. The communication device of claim 44 further comprising:  
a second receiver capable of receiving a third compressed data from said first device over said first communication line; and  
a second transmitter capable of transmitting said third compressed data to said second device over said packet network.